

MIKHAYLOV, V.

UL'HARIA / General Problems of Pathology. Tumors.

T-5

os Jour : Ref. Zh.-Biol. No 2, 1958, No 7851

uthor : Mikhaylov, V., Vlahov, K., Karparov, M.

st :

tle : Tomographic Examination in Pulmonary Carcinoma

ig Pub : S Vrem. Med., 1956, 7, No 10, 115-124

stract : No abstract.

rd : 1/1

MIKHAYLOV, Vasilin; PRODANOV, Asen; RASHEV, Mikhail (Plovdiv)

Problem of pulmolithiasis endoalveolaris diffusa. Arkh.pat. 18 no.8:
73-76 '56. (MLRA 10:2)

1. Iz Instituta rentgenologii, kliniki vnutrennikh bolesney i Instituta
obshchey patologii i patologicheskoy anatomii Meditsinskoy akademii
imeni I.P.Pavlova (Plovdiv, Bolgariya)
(LUNGS, calculi,
pulmolithiasis endo-alveolaris diffusa (Bus))

MIKHAYLOV, Veselin, professor (Bolgariya)

Causes of the modification in cardiac and mediastinal shadows in pulmonary emphysema. Klin.med. 34 no.3:38-42 Mr '56. (MLRA 10:1)

1. Iz Instituta obshchey rentgenologii Meditsinskogo akademii imeni I.P.Pavlova v Plovdive (zav. kafedroy - professor Veselin Mikhaylov).

(EMPHYSEMA, PULMONARY, diagnosis,

x-ray, changes of cardiac & mediastinal shadows (Rus))

(HEART, radiography,

in pulm. emphysema, change of cardiac shadows (Rus))

(MEDIASTINUM, radiography,

in pulm. emphysema, changes of mediastinal shadows (Rus))

MIKHAYLOV, Veselin, professor; ANDREEV, Vl.

Etiology of erythroplasia of the penis. Urologia, 22 no.1:57-59
Ja-F '57 (MLRA 10:5)

1. Iz nauchno-issledovatel'skogo onkologicheskogo instituta v Sofii
(direktor-professor Veselin Mikhaylov)
(ERYTHROPLASIA, etiol. and pathogen.
penis, etiol. & ther.)
(PENIS, dis.
erythroplasia, etiol. & ther.)

MIKHAYLOV, Veselin, professor (Bolgariya)

Interrelation of chronic appendicitis, chronic hepatitis, chronic pancreatitis, and particularly of some forms of diabetes mellitus. Klin. med. 35 no.2:48-55 P '57 (MLRA 10;4)

1. Iz kafedry rentgenologii (zav.-prof. Veselin Mikhaylov)
Meditsinskoy akademii imeni I.P. Pavlova v Plovdive (Bolgariya)

(DIABETES MELLITUS, compl.

correlation of chronic appendicitis, chronic hepatitis & chronic pancreatitis)

(APPENDICITIS, etiol. and pathogen.

diabetes mellitus, correlation with chronic hepatitis, & chronic pancreatitis)

(HEPATITIS, etiol. and pathogen.

diabetes mellitus, correlation with chronic appendicitis & chronic pancreatitis)

(PANCREATITIS, etiol. and pathogen.

diabetes mellitus, correlation with chronic appendicitis & chronic hepatitis)

MIKHAYLOV, V.; BAZDUGANOV, A.

Role of magnesium compounds in experimental radiation sickness.
Med. rad. 6 no.2:75-76 '61. (MIRA 14:3)
(RADIATION SICKNESS) (MAGNESIUM COMPOUNDS)

ZHUCHENKO, V., inzh.; MIKHAYLOV, V., inzh.

New hydraulic cutterhead. Rech. transp. 21 no.1:32-34 Ja '62.
(MIRA 16:8)

(Dredging machinery)

MIKHAYLOV, V.; VUYCHENKO, P.

Antifog headlights. Za bezop.dvizh. 4 no.1:15 Ja '62.

(MIRA 16:7)

1. Starshiye gosudarstvennyye avtoinspektory tekhnicheskogo otdeleniya
Otdela regulirovaniya ulichnogo dvizheniya i Gosudarstvennoy
avtomobil'noy inspeksii.

(Automobiles—Lighting)

KOSHKE, G.; MIKEROV, B.; MIKHAYLOV, V., inzh. (L'vov)

Planning and organizing work on substituting existing production norms with new ones. Sots. trud 6 no.4:75-85 Ap '61.

(MIRA 16:7)

1. Zamestitel' nachal'nika tekhnologicheskogo otdela Moskovskogo avtozavoda im. Likhacheva (for Koshke). 2. Nachal'nik otdela truda i zarabotnoy platy Yaroslavskogo motornogo zavoda (for Mikerov).
(Production standards)

DUBROVIN, M.; MIKHAYLOV, V.

Comprehensive economic evaluation of the transportation of coal for power production. Rech. transp. 14 no.4:18-19 '65.

(MIRA 18:5)

1. Glavnyy spetsialist Gosudarstvennogo instituta proyektirovaniya i izyskaniya na rechnom transporte (for Dubrovin). 2. Zamestitel' nachal'nika Upravleniya gruzovoy i kommercheskey raboty Morskogo rechnogo flota (for Mikhaylov).

MIKHAYLOV, Vladimir.

Michurin's theories are the basis of modern biology. Zhur. ob. biol.
16 no.5:423-425 S-O '55. (MLRA 9:3)

1. Akademiya nauk Pol'skoy Narodnoy Respubliki.
(BIOLOGY) (PARASITOLOGY)

MIKHAYLOV, Vladimir.

Some problems on the interrelation between primary intermediate
hosts and Cestoda larvae. Zool.shur. 34 no.5:986-991 S-O '55.

(MLBA 9:1)

1.Parazitologicheskaya laboratoriya Pol'skoy Akademii nauk,
Warsaw.

(Intestines--Bacteriology) (Worms, Intestinal and parasitic)

MIKHAYLOV, Vladimir

Some adaptations in *Astasia cyclopis* Michajlow (Flagellata) to a parasitic way of life [with summary in English]. Trudy Len. ob-va est. 73 no.4:121-128 '57. (MIRA 11:6)

1.Parazitologicheskaya laboratoriya Pol'skoy Akademii nauk.
(Flagellata) (Parasitism)

MIKHAYLOV, Vladimir

State and principal lines of research in the field of general
parasitology in the Polish People's Republic. Zool.zhur. 38
no.1:145-149 Ja '59. (MIRA 13:4)

1. Parazitologicheskaya laboratoriya Pol'skoy Akademii nauk.
(Poland--Parasitology)

VIKAR, Vladimir

Interspecific relations of larvae of two cestode species in their intermediate host. Zool.zhur. 3 no.6:842-845 Ja '50. (Ill. 1 : 1)

1. Laboratory of Parasitology, Polish Academy of Sciences, Warsaw.
(The names) (Parasites--Cestoda)

MIKHAYLOV, V.A., entomolog

For clarity and consistence in recommendations on plant protection.
Zashch. rast. ot vred. i bol. 3 no.4:62-63 J1-Ag '58. (MIRA 11:9)

1. Narymskaya gosselektantsiya.
(Plants, Protection of)

MIKHAYLOV, V. A., Cand Tech Sci -- (diss) "Research in the improvement of the technological condition of performance of contact clarifiers." Novochoerkassk, 1960. 18 pp with graphs; (Ministry of Higher and Secondary Specialist Education RSFSR, Novochoerkassk Order of Labor Red Banner Polytechnic Inst im S. Ordzhonikidze); 200 copies; price not given; (KL, 27-60, 154)

MIKHAYLOV, V.A.

Experimental investigation of ball-bearing speed regulators.
Stan.i instr. 27 no.3:21-26 Mr '56. (MIRA 9:7)
(Governors (Machinery))

SHESTAKOV, M.M., inzh.; MIKHAYLOV, V.A., kand. tekhn. nauk;
LOBODA, A.I., inzh.; RODIONOV, N.F., inzh.

Construction and operation of automobile roads in Krivoy
Rog Basin open-cut mines. Met. i gornorud. prom. no.5:
61-64 S-0 '63. (MIRA 16:11)

1. Tsentral'nyy gornobogatitel'nyy kombinat, Krivoy Rog
(for Shestakov). 2. Krivomoshskiy filial Instituta gornogo
dela AN UkrSSR (for Mikhaylov, Loboda, Rodionov).

MIKHAYLOV, V. A.

USSR/Medicine - Toxicology

Mar/Apr 51

"Peculiarities of Antidote Action Depending on the Point of Application of the Poison," F. S. Tropp, V. A. Mikhaylov

"Arkh Patol" Vol XIII, No 2, p 91

PA 192767

Examined effect of several physiologically active substances on the toxic action of potassium cyanide (I), manganese chloride (II), and arecoline (III). Carried out 125 experiments on an isolated frog heart. Triptophan, glycine, alanine, and methyl-ene blue reactivate the work of a heart suppressed

192767

USSR/Medicine - Toxicology (Contd)

Mar/Apr 51

by I and III. They do not restart a heart stopped by II. Adrenalin reactivates the work of a heart only after application of III and II. Authors conclude that I affects other mechanisms than II or III. This paper was presented at the Sverdlovsk City Soc of Pathoanatomists and Pathophysiol-ogists.

192767

MIKHAYLOV, V. A.

MIKHAYLOV, V. A. -- "Concerning the Mechanism of the Toxic Action of Manganese."
Sub 20 Oct 52, First Moscow Order of Lenin Medical Inst. (Dissertation for
the Degree of Candidate in Medical Sciences.)

SO: Vechernaya Moskva January-December 1952

MIKHAYLOV, V.A. (Sverdlovsk)

Participation of endocrine glands and vegetative nervous system
in the mechanism of the toxic action of manganese. Gig. truda
i prof. zab. 7 no.3:37-42 Mr'63 (MIRA 17:1)

1. Institut gigiyeny truda i professional'noy patologii,
Sverdlovsk.

MIKHAYLOV, V.A. (Sverdlovsk)

Review of the book "Manganese oxides; comparative toxicity,
hygienic importance and clinical aspects of chronic action
of manganese". Gig. truda i prof. zab. 7 no.3:60-61 Mr '63
(MIRA 17:1)

OSIPOV, M.Ye., inzh.; MIKHAYLOV, V.A., inzh.

Wave-resistant rafts to be used on reservoirs of the Volga and
Kama Basins. Rech.transp. 17 no.10:12-17 0 '58. (MIRA 11:12)
(Volga Basin--Lumber--Transportation)
(Kama Basin--Lumber--Transportation)

VAGANOV, G.I. , kand.tekhn.nauk; MIKHAYLOV, V.A., inzh.

Towing rafts equipped with deflectors. Rech.transp. 18 no.5:16-17
my '59. (MIRA 12:9)

(Lumber--Transportation)
(Towing)

SOV/137-57-11-22365

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 246 (USSR)

AUTHORS: Girshovich, N.G., Maksimov, S.K., Mikhaylov, V.A.

TITLE: The Properties of Nodular Cast Iron at Elevated Temperatures and the Possibilities for its Employment as Reinforcement Metal (Svoystva chuguna s sharovidnym grafitom pri povyshen-nykh temperaturakh i vozmozhnost' yego ispol'zovanya dlya armatury)

PERIODICAL: V sb.: Polucheniye otlivok iz vysokoprochnogo chuguna. Moscow, Izd-vo AN SSSR, 1955, pp 114-123

ABSTRACT: An investigation was made of the mechanical properties of cast irons, namely, ferritic and pearlitic-ferritic malleable, inoculated gray, high-strength pearlitic (HSP) and ferritic (HSF), and cast steel (Nr 25 steel) at $<500^{\circ}\text{C}$ under short and long-term loadings. σ_b and σ_s diminish with increase in temperature. HSP shows the greatest strengths, and inoculated cast iron and ferritic malleable cast iron show the lowest, with Nr 25 steel, HSF, and pearlitic-ferritic cast iron occupying intermediate positions, δ rising with temperature. δ is highest in the case of Nr 25 steel and is followed by HSF, then

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SOV/137-57-11-22365

The Properties of Nodular Cast Iron at Elevated Temperatures (cont.)

HSP, etc. Long preliminary soaking at high temperature results in a decline in strength and a rise in δ . High strength cast iron becomes brittle when held in the 400-550° interval. HSI reveals the maximum strength and the minimum rate of drop therein under long soaking. At 500°, the σ_b is as follows, in kg/mm²: 13.2 for HSP, 10.9 for Nr 25 steel, 0.1 for pearlitic-ferritic malleable cast iron, 8.0 for HSF, 7.4 for ferritic cast iron, and 7.0 for inoculated gray iron. Under these temperature conditions as well, δ is higher for steel (16-22%) than for pig iron (6-12%). The increase in the cast iron at 500° is as follows in %: 0.2 for HSP and inoculated gray iron, 0.12 for pearlitic-ferritic malleable cast iron, 0.05 for ferritic malleable cast iron, 0.06 for HSF. At 425°, $\sigma_{ductility}$ is as follows, in kg/mm²: 7.8 for HSF, 6.1 for pearlitic-ferritic malleable cast iron, 5.6 for ferritic malleable cast iron, and 8 for Nr 25 steel. Direct tests of reinforcement show that when brittleness is eliminated high-strength cast iron is close to Nr 25 and may be used at temperatures of up to 425° and a nominal pressure of ≤ 40 kg/cm².

Card 2/2

A.I.

MIKHAYLOV, V. A.

KUZMENKO, K.N.; MIKHAYLOV, V.A.; PLUXENIKOV, V.Kh.

Observations of lunar occultations of the stars at the Kharkov
Astronomical Observatory. Astron. tsir. no.151:28-29 J1 '54.

(MLA 8:3)

1. Khar'kovskaya Astronomicheskaya Observatoriya.
(Occultations)

S/035/61/000/006/030/044
A001/A101

3,1240

AUTHORS: Mikhaylov, V.A., Kuz'menko, K.N., Pluzhnikov, V.Kh.

TITLE: Photographic photometry of the solar corona of June 30, 1954, through light filters

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 6, 1961, 53, abstract 6A426 (Tsirkulyar Astron. observ. Khar'kovsk. un-t", 1958, no. 18, 18 - 34)

TEXT: This is a report on the results of a photometric investigation of the solar corona in various spectrum regions. Photographs were taken with a 6-camera coronagraph. "Industar 17" objectives in combinations with various filters were used. Brightness distribution in the corona was obtained in the following spectral regions: 720, 640, 580, 520, 460, and (without a filter 480) m μ . Exposures were simultaneous in all the cameras. Brightness fall off in all regions is well represented by Baumbach's formula. The authors present photographs of the solar corona in various rays, curves of brightness fall off in these spectral regions and isophotes.

V. Yesipov

[Abstracter's note: Complete translation]

Card 1/1

MIKHAYLOV, V.A.; CHIZHOV, V.V.; ANISIMOV, V.A.; YERMILOV, P.I.; CHUPEYEV, M.A.

Intensification of the grinding of pigments in binders.
Lakokras . mat. i ikh priem. no.5:64-65 '63. (MIRA 16:11)

TURKENICH, D.I.; MIKHAYLOV, V.A.; POGREBNOY, Yu.N.; POTRUSAYEV, A.P.

Intensity of flame radiation above an oxygen-blown converter as
parameter for the automatic stoppage of the smelting process.
[Sbor. trud.] TSNIICHM no.29:57-64 '63. (MIRA 17:4)

MIKHAYLOV, V.A., kand.tekhn.nauk; OKOL'ZIN, Ye.P., inzh.; YAMSHCHI-
KOV, V.S., inzh.

Using conveyer-belt transportation. Mekh.1 avtom.proizv. 16 no.
2:22-23 F '62. (MIRA 17:3)

VOLKOV, A.A., dotsent; MIKHAYLOV, V.A., dotsent

Design of an electrical network for regulating the liquid level.
Izv. vys. ucheb. zav.; gor. zhur. no.5:165-172 '61.

(MIRA 16:7)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy avtomatizatsii gornopromyshlennykh predpriyatiy.
(Liquid level indicators)
(Ore dressing--Equipment and supplies)

MIKHAYLOV, V.A., dotsent

Experimental study of an electromagnetic powder metal brake.
Izv. vys. ucheb. zav.; gor. zhur. no.5:177-180 '61.

(MIRA 16:7)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy avtomatizatsii gornopromyshlennykh predpriyatiy.
(Brakes) (Metal powder products)

MIKHAYLOV, V.A., kand.tekhn.nauk; CHERKONOS, A.I., gornyy inzh.;
— RODIONOV, N.F., gornyy inzh.

Mechanized cleaning of dump truck baskets in mines. Gor.zhur.
no.4:75 Ap '64. (MIRA 17:4)

1. Krivorozhskiy filial Instituta gornogo dela imeni Fedorova,
Krivoy Rog.

VOLKOV, V.T.; DUDKO, A.A.; LEBEDEV, V.P.; LIPGART, B.K.; MIKHAYLOV, B.V.,
kand.tekhn.nauk; MIKHAYLOV, V.A., kand.tekhn.nauk; REKUNOV, V.F.;
SAVEL'YEV, N.P.; SOROKIN, V.V.; KHARIN, A.I. kand.tekhn.nauk;
Prinimali uchastiye: IVANOV, N.A., kand.tekhn.nauk;
INOKOVA, O.L.; GOMOZOVA, N.A., red.; NAUMOVA, G.D., tekhn.red.

[Mechanization and automation in the rock products industry]
Mekhanizatsiia i avtomatizatsiia v promyshlennosti nerudnykh
stroitel'nykh materialov. [By] V.T.Volkov i dr. Moskva,
Gosstroizdat, 1963. 353 p. (MIRA 17:3)

KOGARKO, S.M., doktor tekhn.nauk; BORODULIN, A.A.; BOKHON, Yu.A.; KOMAROV, V.N.; LYAMIN, A.G.; MIKHAYLOV, V.A.; SVISTUNOV, V.G.

Propagation of the chemical reaction zone in acetylene in large diameter pipes. Khim.prom. no.7:496-501 J1 '62. (MIRA 15:9)

1. Institut khimicheskoy fiziki AN SSSR i Gosudarstvennyy institut po proyektirovaniyu zavodov kauchukovoy promyshlennosti.
(Acetylene) (Gas pipes) (Combustion)

KOGARKO, S.M.; LYAMIN, A.G.; MIKHAYLOV, V.A.; Principal uchastiyer;
BOKHON, Yu.A.

Performance of scrubbers with a packing used as flame-
intercepting device in acetylene pipes. Khim. prom. no. 4:
275-282 Ap '64. (MIRA 17:7)

1. In 'titut khimicheskoy fiziki AN SSSR, i Gosudarstvennyy
projeknyy i nauchno-issledovatel'skiy institut promyshlennosti
sinteticheskogo kauchuka.

MIKHAYLOV, V.A.; DIYESPEROVA, M.M., studentka I kursa.

Algebraic curves represented by trinomial equations. Stud.nauk.pratsi
no.16:33-47 '55. (MLRA 10:2)
(Geometry, Algebraic)

MIKHAYLOV, V.

AUTHOR: MIKHAYLOV, V.

42-6-9/17

TITLE: On the Reduction of a Linear Differential Equation With Constant Coefficients to a System of Equations of First Order (O svedenii lineynogo differentsial'nogo uravneniya s postoyannymi koeffitsiyentami k sisteme uravneniy pervogo poryadka)

PERIODICAL: Uspekhi Matematicheskikh Nauk, 1957, Vol. 12, Nr. 6, pp. 157-160 (USSR)

ABSTRACT: The author considers the reduction of the equation

$$(1) \quad Lu = \left(\sum_{s=0}^N \sum_{(i_k)=s} a_{i_0, \dots, i_n} p_0^{i_0}, \dots, p_n^{i_n} \right) u = 0$$

to a system of equations of first order the characteristic determinant of which is equal to the characteristic polynomial

$$\chi(\lambda, t_1, \dots, t_n) = \sum \sum a_{i_0, \dots, i_n} \lambda^{i_0} t_1^{i_1}, \dots, t_n^{i_n}$$

of (1). It is demanded that every component of the solution of the system is a solution of (1) and that to every solution of (1) there exist still some solutions of (1) which together as components of a vector form a solution of the system. The main

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On the Reduction of a Linear Differential Equation With Constant Coefficients to a System of Equations of First Order 42-6-9/17

part of the consideration is the decomposition of the operator L : $EL = L_2 L_1$, where E is the unit matrix, L_1 is the sought operator of first order and L_2 is a certain operator of $(N-1)$ -st order.

If the representation is possible, then obviously all N components of the vector $\tilde{u}$, where $L_1(\tilde{u}) = 0$, satisfy the equation (1). It is shown that the desired representation of L is always possible for $N^2(n+1) \geq 2 \Lambda(n, N)$ and for $N^2(n+1) < \Lambda(n, N)$ it is impossible. Here we have:

$$\Lambda(n, N) = \sum_{v=0}^{n-1} (n+1-v) \frac{(v+1) \dots (v+N-2)}{(N-2)!} \quad \text{for } N > 2$$

$$\Lambda(n, 1) = n+1, \quad \Lambda(n, 2) = \frac{(n+2)(n+1)}{2}.$$

Four Soviet references are quoted.

SUBMITTED: November 2, 1956
AVAILABLE: Library of Congress

Card 2/2

16(1) 16.3500

68145

AUTHOR: Mikhaylov, V.

SOV/20-129-6-8/69

TITLE: Potentials of Parabolic Equations

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 6, pp 1226-1229 (USSR)

ABSTRACT: In the rectangle $D = (0 < x < 1) \times (0 \leq t \leq T)$ the author considers the problem

$$(1) \quad \frac{\partial u}{\partial t} = (-1)^{p-1} \frac{\partial^{2p} u}{\partial x^{2p}}$$

$$(2) \quad u|_{t=0} = 0 \quad 0 \leq x \leq 1$$

$$(3) \quad \left. \frac{\partial^k u}{\partial x^k} \right|_{x=0} = F_k(t) \quad \left. \frac{\partial^k u}{\partial x^k} \right|_{x=1} = \phi_k(t), \quad 0 \leq k \leq p-1, \quad 0 \leq t \leq T$$

Theorem: Assume that for $t \in [0, T]$ and arbitrarily small ε it is

$$F_k(t), \quad \phi_k(t) \in \text{Lip} \left(1 + \varepsilon - \frac{k+1}{2p} \right), \quad 0 \leq k \leq p-1$$

Then the problem (1)-(2)-(3) is correctly posed.

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Potentials of Parabolic Equations

SOV/20-129-6-8/69

The fundamental solution $G(x, \xi; t, \tau)$ of (1) which for $t = \tau$ passes into $\delta(x - \xi)$ and which remains bounded for fixed ξ and $t \geq \tau$ for $|x| \rightarrow \infty$, is

$$(4) \quad G(x, \xi, t, \tau) = \frac{1}{\pi} \int_0^\infty \cos \lambda(x - \xi) e^{-\lambda^2(t - \tau)} d\lambda.$$

As the potential of k -th order, $0 \leq k \leq 2p - 1$, with continuous density $\mu_k(\tau)$ concentrated on the straight line $\xi = 0$, the author denotes

$$(7) \quad U_k(x, t) = \int_0^t \mu_k(\tau) \frac{\partial^k G(x, \xi; t, \tau)}{\partial \xi^k} \Big|_{\xi=0} d\tau.$$

He defines analogously the potential of k -th order $V_k(x, t)$ with the density $\nu_k(\tau)$ concentrated on $\xi = 1$. The solution of (1) is set up as a sum

Card 2/3

Potentials of Parabolic Equations

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$$(13) \quad u(x, t) = \sum_{k=0}^{p-1} (U_k(x, t) + V_k(x, t))$$

with unknown densities. For the determination of the densities the author obtains a system of Volterra equations of 2nd kind which can be solved by successive approximation.

The method can be extended to complicated cases.

The author mentions A.N. Tikhonov, P.K. Zeragiya, L.N. Slobodetskiy and Petrovskiy.

There are 10 references, 6 of which are Soviet, 2 American, 1 French, and 1 Polish.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova
(Moscow State University imeni M.V. Lomonosov)

PRESENTED: July 20, 1959, by I.G. Petrovskiy, Academician

SUBMITTED: July 18, 1959

X

Card 3/3

S/044/62/000/010/042/042
B158/B102

AUTHORS: Mikhaylov, V. A., Moskalenko, V. M.

TITLE: Algorithm for solving a problem on a "Ural" machine according to a program compiled for a "Kiyev" automatic digital device

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1962, 67, abstract 10V356 (Zb. prats' z obchisl. matem. i tekhn. v. I. Kiyev, AN USSR, 1961, 61-67 [Ukr.; summary in Russ.])

TEXT: This algorithm is described in terms of the address programs.
[Abstracter's note: Complete translation.]

Card 1/1

MIKHAYLOV, V.

Dirichlet's problem and first mixed problem for a parabolic equation.
Dokl. AN SSSR 140 no.2:303-306 S '61. (MIRA 14:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavleno akademikom I.G.Petrovskim.
(Boundary value problems) (Differential equations)

VASIL'YEV, Dmitriy Vasil'yevich, zasl. deyatel' nauki i tekhniki
RSFSR; MIKHAYLOV, Vladimir Aleksandrovich; NORNEVSKIY,
Boris Ivanovich; VYLKOST, V.D., retsenzent; KUTASIN, B.P.,
retsenzent; KLINIMA, Ye.V., red.

[Automation of ship equipment] Avtomatizatsiia sudovykh
ustanovok. Pod red. D.V.Vasil'eva. 2. izd. perer. i dop.
Leningrad, Sudostroenie, 1965. 607 p. (MIRA 19:1)

MIKHAYLOV, V.A., laureat Stalinskoy premii, kandidat tekhnicheskikh nauk.

[Electronic automatic control systems for use in municipal services] Elektronnaia avtomatika v kommunal'nom khoziaistve.
Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR,
1953. 271 p. (MLRA 7:3)
(Electronic control)

MERZLENKO, V.Ya.; KULZHINSKIY, V.I.; MIKHAYLOV, V.A.; KOGAN, A.S., kand.
tekhn.nauk, nauchnyy red.; BOTOVA, Yu.M., red.

[Multilayer filters] Mnogosloynye fil'try. 1960. 6 p. (Akademiya
kommunal'nogo khoziastva. Informatsionnoe pis'mo, no.1).
(MIRA 14:1)

(Water—Purification) (Filters and filtration)

MIKHAYLOV, Vladimir Andreyevich; NOVAKOVSKIY, Nison Samoylovich; SEMENOV,
V.S., red.; PANCHENKO, M.F., red. izd-va; LELYUKHIN, A.A., tekhn.
red.

[Automation of purifying structures in city water-supply systems]
Avtomatizatsiya vodoochistnykh sooruzhenii gorodskikh vodoprovodov.
Moskva, Izd-vo M-va kommun. khoz. TSFSR, 1960. 192 p.

(MIRA 14:6)

(Water—Purification) (Automation)

VASIL'YEV, D.V.; MIKHAYLOV, V.A.; NORNEVSKIY, B.I.; DEMCHENKO, O.P.,
starshiy nauchnyy sotr., kand. tekhn. nauk, retsenzent;
MURATOV, I.I., dots., kand. tekhn. nauk, retsenzent;
REYNGOL'D, Yu.A., kand. tekhn. nauk, dots., retsenzent;
BAYKO, V.F., kand. tekhn. nauk, dots., nauchnyy red.; KLIMINA,
Ye.V., red.; KRYAKOVA, D.M., tekhn. red.

[Automatic control systems for ships] Sudovye avtomatizirovan-
nye ustanovki. Leningrad, Gos. soizuznoe izd-vo sudostroit. pro-
myshl., 1961. 595 p. (MIRA 15:2)
(Marine engineering) (Automatic control)

GORONOVSKIY, I.T.; kand.khimicheskikh nauk; MIKHAYLOV, V.A.

Automation of the processes involving the purification and
quality control of industrial feed-water, *Zhur.VKH* 6 no.2:206-
214 '61. (MIRA 14:3)

(Sewage--Purification)
(Automatic control)

MIKHAYLOV, V.A.

Selecting the load of contact clarifiers by using the theory of
modeling. Trudy NPI 114:31-38 '61. (MIRA 15:2)
(Water--Purification)

KASTAL'SKIY, Aleksandr Aleksandrovich, doktor tekhn. nauk, prof.;
 MINTS, Daniil Maksimovich, doktor tekhn.nauk, prof. Prinimali
 uchastiye: MIKHAYLOV, V.A., kand. tekhn. nauk; NOVAKOVSKIY,
 N.S.; ABRAMOV, N.N., doktor tekhn. nauk, prof., retsenzent;
 NIKIFOROV, G.N., kand. tekhn. nauk, dots., retsenzent; PREGER,
 Ye.A., retsenzent; BULYGIN, A.K., retsenzent; LIPKIN, Ye.V.,
 retsenzent; VOZNAYA, N.F., kand. khim. nauk, retsenzent;
 BELOV, A.N., dots., retsenzent; AGRANONIK, Ye.Z., kand. tekhn.
 nauk, retsenzent; NOVIKOV, P.V., inzh., retsenzent; SHVARTS,
 R.B., inzh., retsenzent; KONYUSHKOV, A.M., kand. tekhn.nauk,
 nauchnyy red.; NIKOLAYEVA, T.D., red. izd-va; GOROKHOVA, S.S.,
 tekhn. red.

[Water treatments for drinking and for industrial uses] Podgo-
 toвка vody dlia pit'evogo i promyshlennogo vodosnabzheniia.
 Moskva, Gos.izd-vo "Vysshiaia shkola," 1962. 557 p.

(MIRA 16:1)

1. Kafedra vodosnabzheniya Leningradskogo inzhenerno-
 stroitel'nogo instituta (for Nikiforov, Preger, Bulygin,
 Lipkin, Voznaya, Belov, Agranonik).

(Water--Purification)

MIKHAYLOV, V.A., kand.tekhn.nauk; DIK, V.M., inzh.

Automatic control of the qualitative parameters of drinking
water by an optical method. Vod. i san. tekhn. no.1:1-7 Ja
'62. (MIRA 15:6)
(Automatic control) (Drinking water)

BYKADOROV, L.F.; KULZHINSKIY, V.I.; MIKHAYLOV, V.A.

Study of the operation of the porous drains of filters designed
by the Academy of Municipal Services. Nauch. trudy AKKH no.22:
120-131 '63. (MIRA 18:5)

KULZHINSKIY, V.I.; MIKHAYLOV, V.A.

For the efficient designs of filter drains by the Academy of
Municipal Services. Trudy NPI 138:37-48 '63. (MIRA 16:10)

MIKHAYLOV, Vladimir Andreyevich; ZHIGAREV, A.A., red.

[Electronics in municipal services] Elektronika v gorod-
skom khoziaistve. Moskva, Energiia, 1964. 335 p.
(MIRA 18:1)

ACC NR: AR6023697

SOURCE CODE: UR/0275/66/000/004/A031/A031

AUTHOR: Mikhaylov, V. A.; Roynishvili, V. N.; Chikovani, G. Ye.

TITLE: Long-gap spark chamber

SOL E: Ref. zh. Elektronika i yeye primeneniye, Abs. 4A222

REF SOURCE: Sb. Fiz. chastits vysok, energiy. No. 1, Tbilisi, Metsniyeroba, 1965,85-89

TOPIC TAGS: spark chamber, spark gap

ABSTRACT: The construction and principal characteristics of long-gap (5 and 10 cm) spark chambers are presented. The chamber space (25 lit) was filled with commercial argon or HF-brand neon at atmospheric pressure. Within 45° , the direction of the spark was along the particle movement. Within the entire angular range of the tracks, the chambers showed a 100% efficiency of recording. For the 5-cm gap chamber, the error of angle determination was 0.0025 rad. V. T. [Translation of abstract]

SUB CODE: 20

Card 1/1

UDC:621.387.4

29
BTP MIKHAYLOV, VA

11136* Rational Method of Formulating Rubber Soles.
(Russian.) V. A. Mikhailov and I. M. Landa. *Legkaya Promy-
shlennost*, v. 12, Mar. 1952, p. 15-17.
Discusses various ways of obtaining desired properties in rub-
ber compounds for shoe soles. 13 ref.

TUGOV, Ivan Ivanovich; ZHILIN, D.I., retsensent; MIKHAYLOV, V.A., retsensent;
OL'SHANETSKIY, M.S., retsensent; TORMOZOVA, L.I., ~~redaktor~~, MEDVEDEVA,
L.A., tekhnicheskii redaktor

[Technology of leather substitutes and industrial fabrics] Tekhnologiya
zamenitelei koshi i tekhnicheskikh tkanei. Izd. 2-oe, dop. i perer.
Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva legkoi promyshl. SSSR,
1956. 531 p. (MLRA 10:1)
(Leather substitutes) (Textiles)

MIKHAYLOV, V.A., kand.tekhn.nauk

Smoothing and embossing of leather. Izv. vys. ucheb. zav.;
tekhn. leg. prom. no.3:30-40 '58. (MIRA 11:10)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti.
(Leather work)

KIPNIS, B.Ya.; KOLESNIKOV, V.N.; LERNER, D.V.; MINAYEV, S.M.;
PANOVA, A.V.; LIFSHITS, I.D., ~~land. tekhn. nauk,~~
retsenzent; MIKHAYLOV, V.A., inzh., red.; PLEMYANNIKOV,
M.N., red.; BATYREVA, G.G., tekhn. red.

[Handbook on the manufacture of artificial leather] Spra-
vochnik po proizvodstvu iskusstvennoi kozhi. Moskva, Giz-
legprom. Vol.1. 1963. 523 p. (MIRA 16:12)
(Leather, Artificial)

MIKHAYLOV, V.A.

Speed up the development of the artificial leather industry.
Kozh.-obuv.prom. 6 no.1;8-9 Ja '64. (MIRA 17:4)

AUTHOR: Mikhaylov, V.A., Engineer

100-9-1/11

TITLE: Mechanisation of Operations in Glavkiyevstroy
(Mekhanizatsiya rabot v Glavkiyevstroye)

PERIODICAL: Mekhanizatsiya Stroitel'stva, 1957, No. 9.
pp. 3 - 6 (USSR).

ABSTRACT: 16 small and medium-sized building organisations were amalgamated in Kiev during 1955 and the organisation Glavkiyevstroy formed. By centralising all the machinery, the organisation can use the same more effectively. Types of machinery and the number of individual machines available are given in Table 1. The Trust Stroymekhanizatsiya, attached to Glavkiyevstroy, is responsible for the maintenance of the machinery. The organisation of this trust, up to 1957, is shown diagrammatically (Fig.1). The department for excavations carries out all the work assigned to Glavkiyevstroy, e.g. the excavation and transportation of the soil, trench-digging, filling and levelling of the ground (Fig.2). The department for cranes has a limited number of cranes from Glavkiyevstroy. In 1956, each building trust had 22 to 30 cranes at its disposal. The cranes are assembled and dismantled by a special department which uses truck-mounted cranes, trucks and trailers and can assemble 20 - 25 cranes/month. Approximately 1 km of crane rails are

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Mechanisation of Operations in Glavkiyevstroy

100-9-1/11

laid every month in Glavkiyevstroy and also dismantled. A special supervising organisation is responsible for the effective use of the machinery, as well as for stone-crushing machinery, mortar and concrete mixers, pneumatic mortar delivery plants, etc. Glavkiyevstroy formed a centralised machine park to eliminate bad distribution of the machinery and the building assembly work increased by 18.6%. The output of the operatives increased by 26.9% and, under similar conditions by 18.2% in 1956. Table 2 shows the improvements in the mechanisation of labour, Table 3 the fulfilment of norms during 1955 and 1956. A group of excavator and bulldozer operators completed 100 000 m³ excavations and even excavated the originally planned 6 000 m³ manual work by machines. Until the formation of Glavkiyevstroy, the cranes only operated 5 hrs out of every 24 hours and assembly and dismantling work took 15 to 30 days. Recently, the cranes have been operating 5 to 9 hrs/24 hrs and assembly and dismantling only lasts 9 days. During the construction of blocks of flats in the Brest Litovsk Str. and other blocks, cranes were used for 3.140 to 3.250 machine-hours during 9 months, i.e. 200% over the norm. The average time of working of cranes during 1956 was 2 791 machine-hours. One crane can be used during the

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Mechanisation of Operations in Glavkiyevstroy

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erection of 3 to 4 blocks of flats/year when the continuous flow method of construction is used. Engineer Zaykovaty's method for turning cranes by means of a hydraulic jack has been accepted. The work can be carried out during one shift. The capacity of the cranes C5K-1 and C5K-1M is to be increased to 4 tons. The leading operators of Stroymekhanizatsiya introduced various improvements on the cranes, e.g. a safety check (Khristevich), a mechanical indicator for rail-truck levels (Shostenko and Zaykovaty), etc. Only 5 people per shift are employed at present during the erection of a 5-storey block of flats when cranes are used. During 1957, Glavkiyevstroy erected 46 five-storey blocks of flats. Light concrete blocks are used to a great extent since the formation of a new Keramzit workshop. Keramzit blocks were used during the construction of 3 four-storey high school buildings. By using natural gas for drying out buildings erected during the winter months, it was possible to complete decorations during 4 to 5 days.

There are 3 figures and 3 tables.

AVAILABLE: Library of Congress
Card 3/3 1. Construction industry-USSR 2. Construction-Equipment

MIKHAYLOV, V.A.; SKACHKOV, I.A.; YAVORSKIY, G.A.; GINZBURG, S.M.; PALEVSKIY, S.A., inzh., nauchnyy red.; SKVORTSOVA, I.P., red.izd-va; TOKER, A.M., tekhn.red.

[Building apartment houses with large brick blocks; practices of the Main Kiev Building Administration] Stroitel'stvo zhilykh domov iz krupnykh kirpichnykh blokov; opyt Glavklevstroia. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekt., 1958. 69 p. (MIRA 11:5)
(Building, Brick)

MIKHAYLOV, Veniamin Aleksandrovich; YAVORSKIY, Georgiy Andreyevich;
~~GIRSENE~~, Boris Isaakovich; MIKHAYLOV, G., red.; ZELENIKOVA, Ye.,
tekhn.red.

[Large brick blocks in construction; production and use] Krupnye
kirpichnye bloki v stroitel'stve; proizvodstvo i primeneniye. Kiev.
Gos.isd-vo lit-ry po stroit. i arkhitekt.USSR, 1959. 191 p.
(MIRA 13:3)

(Building blocks)

BARDYSHEV, A.A., inzh.; VASIL'YEV, V.N., kand. ekon. nauk; VOLKOV, V.G., inzh.; MIKHAYLOV, B.V., kand. tekhn. nauk; MIKHAYLOV, V.A., kand. tekhn. nauk; MIKHAYLOV, V.I., inzh.; PETUNIN, P.I., inzh.; SAVEL'YEV, N.P., inzh.; SOKHIN, V.G., inzh.; STUGAREV, A.S., kand. tekhn. nauk, nauchnyy red.; ZAYCHIKOVA, E.A., red. izd-va; BOROVNEV, N.K., tekhn. red.

[Production of rock, gravel and sand for construction; present state and prospects for development] Proizvodstvo nerudnykh stroitel'nykh materialov; sostoyanie i perspektivy razvitiia. [By] A.A. Bardyshev i dr. Moskva, Gosstroisdat, 1962. 201 p.

(MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnykh stroitel'nykh materialov i gidromekhanizatsii. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnykh stroitel'nykh materialov i gidromekhanizatsii (for all except Zaychikova, Stugarev, Borovnev).

(Crushed stone industry)

(Sand and gravel industry)

BAZYLEV, V.G., kand.tekhn.nauk; MIKHAYLOV, V.A., kand.tekhn.nauk;
OKOL'ZIN, Ye.P., inzh.; SIRENKO, V.N., inzh.; YAMSHCHIKOV, V.S.,
inzh.

Open working of deposits of carbonate rock. Sbor.trud.VNIINerud
no.1:3-23 '62. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnykh
stroitel'nykh materialov i gidromekhanizatsii.
(Rocks, Carbonate) (Quarries and quarrying)
(Aggregates (Building materials))

L 54797-65

WW/JW/WE/RM

EPA/EWT(m)/EPF(c)/EPR/EWP(j)/T/EWA(c) Pc-4/Pr-4/Ps-4/Pt-7

ACCESSION NR: AP5015427

UR/0020/65/162/004/0857/0860

AUTHOR: Kozarko, S. M.; Lyamin, A. G.; Mikhaylov, V. A.

TITLE: The deflagration-to-detonation transition in pure acetylene at low pressures

SOURCE: AN SSSR. Doklady, v. 162, no. 4, 1965, 857-860

TOPIC TAGS: deflagration to detonation transition, low temperature deflagration, pure acetylene, fuel oxygen, combustion, detonation, acetylene, acetylene decomposition

ABSTRACT: The deflagration-to-detonation transition in pure acetylene has been experimentally investigated at initial pressures of 1.0 to 1.4 atm. Experiments were made in two different setups: 1) in a 100-m long pipe 360 mm in diameter and 2) in the same pipe connected with a 24-m long pipe 200 mm in diameter. The motion of the reaction zone was measured with thermocouples and photographically. The ignition energy of pure acetylene has been found to be 5 to 6 times greater than that of a fuel-oxygen mixture at 1 atm initial pressure. However, the deflagration-to-detonation transition in acetylene combustion

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ACCESSION NR: AP5015427

is brought about as readily as in fuel-oxygen mixtures. The deflagration-to-detonation transition is completed at a distance of approximately 100 pipe diameters. The easy deflagration-to-detonation transition in pure acetylene is explained by the extended surface of the flame-front and the high expansion rate of hydrogen, which is one of the decomposition products. Orig. art. has: 3 figures. [AC]

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences, SSSR)

SUBMITTED: 21Nov64

ENCL: 00

SUB CODE: FP

NO REF SOV: 002

OTHER: 001

ATD PRESS: 4028

Card 2/2

MIKHAYLOV, V. A.

Subject : USSR/Engineering AID P - 2383
Card 1/1 Pub. 28 - 4/7
Author : Mikhaylov, V. A.
Title : ~~XXXXXXXXXXXXXXXXXXXX~~
Title : About electric drives for drilling oil wells
Periodical : Energ. byul. 7, 24-25, J1 1955
Abstract : This author discusses the article by Portnoy and Yun'kov on "Efficiency of an Electric Drive for Drilling Oil Wells", published in this magazine in January 1955, which described various types of electromagnetic couplings and recommended the electromagnetic coupling with ferromagnetic filling in particular as the most efficient type.
Institution? None
Submitted : No date

112-2-3465D

112-2-3465D

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957,
Nr 2, p. 137 (USSR)

AUTHOR: Mikhaylov, V.A.

TITLE: Research on the Basic Characteristics of the Magnetic
Clutch with Ferromagnetic Filling with a View to Using
it in the Electric Drive of Mining Equipment (Issledovaniye
osnovnykh kharakteristik elektromagnitnoy mufty s ferro-
magnitnym zapolneniyem s tsel'yu primeniya yeye v gornom
elektroprivode)

ABSTRACT: Bibliographic entry on the author's dissertation for the
degree of Candidate of Technical Sciences, presented to the
Khar'kov Mining Institute (Khar'kovsk. gorn. in-t),
Khar'kov, 1956.

ASSOCIATION: The Khar'kov Mining Institute (Khar'kovsk. gorn. in-t)

Card 1/1

8(0), 32(3)

SOV/112-59-4-7721

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 4, p 182 (USSR)

AUTHOR: Mikhaylov, V. A. (Cust Tech Sci.)

TITLE: RR Switch Control From an Electric Locomotive by Means of High-Frequency Currents

PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Gornyy zh., 1958, Nr 2, pp 115-117

ABSTRACT: A scheme of RR switch control by means of high-frequency signals is described; the scheme was tested at the Khar'kov Mining Institute; the signals were sent from an electric locomotive over the contact wire of the locomotive haulage system. On an approach-switch section isolated by HF traps, the engineman pushes a button which turns on an HF oscillator; the oscillator, through the contact wire, selects (by the amplitude) and energizes the desirable resonant relay; the latter controls the magnetic starter of the switch mechanism; the switch is operated, and the circuit is prepared for operation in the reverse direction. One illustration.

G.A.K.

Card 1/1

Khar'kov Mining Inst.

BEDIN, V.V.; MAKSIMOV, Yu.I.; MERZLYUTIN, Yu.B.; MIKHAYLOV, V.A.;
NOMINOVSKIY, B.I.

Self-excited synchronous generators with direct phase com-
pounding. *Biul.tekh.-ekon.inform.* no.5:48-50 '59.

(MIRA 12:8)

(Electric generators)

ALEKSEYEV, A.Ye.; ASHCHEULOV, V.P., inzh.; MAKSIMOV, Yu.I., inzh.; MERZLYUTIN, Yu.B., inzh.; MIKHAYLOV, V.A., kand.tekhn.nauk; MORNEVSKIY, B.I., kand.tekhn.nauk

System of self-excitation and compounding for synchronous generators used on ships. Sudostroenie 25 no.1:58-62 Ja '59. (MIRA 12:3)

1. Chlen - korrespondent AN SSSR (for Alekseyev).
(Electric generators) (Electricity on ships)

MIKHAYLOV, V.A.

Performance curve of electric drives with an electromagnetic powder
clutch. Sbor.nauch.trud. KHGI 5:89-95 '58. (MIRA 14:4)
(Mining machinery--Electric driving)
(Clutches (Machinery)).

MIKHAYLOV, V.A., assistant

Use of electromagnetic clutches with ferromagnetic filler in
an electric conveyor motor. Vop. rud. transp. no.2:170-174
1957. (MIRA 144)

1. Khar'kovskiy gornyy institut.
(Conveying machinery)
(Clutches(Machinery))

MIKHAYLOV, V.A.

Investigating transient phenomena in electric drives with
electromagnetic powder clutches. Sbor.nauch.trud. KHGI 5:97c
102 '58. (MIRA 14:4)

(Transients (Electricity))

(Mining machinery—Electric driving)

(Clutches (Machinery))

BEDIN, Vladimir Vasil'yevich; ILYASOV, Viktor Andreyevich;
MAKSIMOV, Yuriy Ivanovich; MERZLYUTIN, Yuriy
Borisovich; MIKHAYLOV, Vladimir Aleksandrovich;
NORNEVSKIY, Boris Ivanovich; YEVSEYEV, V.I., red.

[Automatic control of marine synchronous generators;
systems of direct compounding; static conditions] Avto-
matizatsiya sudovykh sinkhronnykh generatorov; sistemy
priamogo kompaundirovaniya: staticheskie rezhimy: Ucheb-
noe posobie po kursu "Elektroenergeticheskie ustanovki
sudov." Leningrad, Leningr. elektrotekhn. in-t im. V.I.
Ul'ianova (Lenina), 1962. 91 p. (MIRA 16:10)
(Electricity on ships) (Automatic control)

Mikhailov, V

AUTHOR: Mikhailov, V.

107-8-32/62

TITLE: Conference on Ultrasonics (Konferentsiya po ul'trazvuku)

PERIODICAL: Radio, 1957, # 8, p 25 (USSR)

ABSTRACT: At the plenary meeting of the First All-Union Conference on the Industrial Application of Ultrasound, which has recently taken place in MOSKVA, several reports were presented on "The Physical Principles and the Industrial Application of Ultrasound" by L.M. Brekhovskiy, Member-Correspondent of USSR Academy of Sciences (Akademiya Nauk SSSR) and "The Industrial Application of the Ultrasound" by Dr. chem. Prof. B.B. Kudryavtsev.

The engineers Kuzyayev and Tseyman (LENINGRAD) furnished details about ultrasonic equipment for working hard and brittle materials.

The 200 watt 3-stage generator consists of a master oscillator with a "6H8C" tube, the preamplifier and the power amplifier with "6Y-50" tubes. It is used in the optical industry, especially for glass-boring.

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TITLE:

Conference on Ultrasonics (Konferentsiya po ul'trazvuku)

It drills a hole 15 mm in diameter within 30 seconds thru a 5 mm thick glass plate and a hole of 5 mm diameter within 12 minutes thru a 5 mm thick plate of carbide tip alloy.

It was successfully tested over a six months' period by an optical plant.

Markov, Candidate of Technical Sciences (K. T. N.), declared that the lack of a fundamental principle of calculating and projecting vibrators for ultrasonic cutting was an obstacle to the development of ultrasonic methods and their introduction into industry.

The All-Union Institute of Aircraft Materials (VIAI), the Leningrad Electrotechnical Institute im. V.I. Ul'yanov, the Central Scientific Research Institute (TSNII), the Ministry of Transportation (MPS) and other organizations presented at the conference many works in the field of ultrasonic defectoscopy.

Engineer Levitskiy told of the new ultrasonic defectoscope for continuous control of welds. It is a "translucent" method.

Piezo-crystals are placed on both sides of the sample under test. One of them radiates the ultrasonic impulse and the

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107-8-32/62

TITLE: Conference on Ultrasonics (Konferentsiya po ul'trazvuku)

other one receives it. If the ultrasonic stream encounters bubbles, its impulse will be partially or completely dissipated.

Professor Rosenberg and collaborators presented the physical principle of the phenomenon of cavitation and determined the optimum conditions for cleaning and degreasing processes, which are made possible by ultrasonics.

Valeyev, Candidate of Physico-Mathematical Sciences, informed about the piezoelectric properties of barium titanate, ceramics and the industrial use of vibrators made of this material which simplifies the ultrasonic equipment and reduces the costs of the same.

An ultrasonic soldering tool, designed by the Scientific Institute of the Textile Industry (NITI), LENINGRAD, was demonstrated at the conference. It is best used in the soldering of aluminum and its alloys. The oxide film being eliminated, the metal can be easily wet by the solder. For soldering aluminum, tin and tin-zinc alloys are used. The best one contains 80 % tin and 20 % zinc. The seam strength is about 5 kg/mm² and the corrosion resistance is also adequate.

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107-8-32/62

'TITLE:

Conference on Ultrasonics (Konferentsiya po ul'trazvuku)

The ultrasonic soldering tools "УЛ-31" will be manufactured by one of the plants of the Ministry of the Aircraft Industry.

The "УЛ-31" equipment consists of a soldering-tool, a bath and a power-supply block. The working frequency is 18-20 kc, the power 250 watts, the main voltage 220 V-50 cps and the power of the heater 300 watts. The tool will be manufactured by one of the plants of the Ministry of Aircraft Industry.

Some reports dealt with the ultrasonic cleaning and degreasing processes used for the manufacture of small parts, such as cathodes, radio tube fittings and radio parts, which cannot be touched by hands, because of small tolerances (3-4μ).

In the Polytechnical Museum, many ultrasonic devices were demonstrated under working conditions, such as ultrasonic soldering tools and tinning baths, ultrasonic equipment for the cleaning of marine boilers, defectoscopes, power generators and ultrasonic oscillators.

It has been stated at the conference that there is no coordinating center for utilizing ultrasound. Further, there are no regular publications on the development of ultrasonic

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107-8-32/62
TITLE: Conference on Ultrasonics (Konferentsiya po ul'trazvuku)
devices, neither in the USSR nor abroad.
INSTITUTION: The First All-Union Conference About the Industrial Applica-
tion of the Ultrasonics.
PRESENTED BY:
SUBMITTED:
AVAILABLE: At the Library of Congress.
Card 5/5

KATS, Yu.I., otv. za vypusk; GERASIMENKO, A.A., otv. za vypusk; MIKHAYLOV,
V.A., otv. red.; PERTSOVA, M.N., tekhn. red.

[Dust control in electrode shops] Bor'ba s pyl'iu v elektroodnykh
tsakhakh. Sverdlovsk, 1959. 10 p. (Seria: Obmen opytom dlia
vnedrenia v praktiku, no.6) (MIRA 14:11)

1. Sverdlovsk. Nauchno-issledovatel'skiy institut gigiyeny truda i
profpatologii. 2. Otdel gigiyeny truda pri Sverdlovskom nauchno-
issledovatel'skom institute gigiyeny truda i profpatologii (for Kats,
Gerasimenko).

(Dust—Removal)

(Electrodes)

PHASE I BOOK EXPLOITATION SOV/3901

Novye v elektricheskoy i ultrazvukovoy obrabotke materialov (New Developments in Electrical and Ultrasonic Machining of Materials) [Leningrad], Izdatat, 1959. 281 p. 5,000 copies printed.

Ed. (title page): L.Ya. Popilov; Ed. (inside book): S.I. Borzhnevskiy; Tech. Ed.: P.S. Saimov.

PURPOSE: This book is intended for technical personnel and production workers.

COVERAGE: This is a collection of 20 articles presented at the Third All-Union Conference of the Scientific and Technical Society of the Machine Industry on Electrical and Ultrasonic Machining of Metals, held in Leningrad. The articles deal with the latest achievements in the field of electrical and ultrasonic machining of metals. New methods of machining presently being developed are described. References follow several of the articles.

Livshits, A.I.; S.J. Podlasov, A.I. Kravets, and A.I. Aronov. Some Problems in the Technology and Design of Machines for Electroerosion Machining of Metals 67

Regehev, I.S. Electric-Pulse Generators of Unipolar Pulses for Electroerosion Machining of Metals 109

Rachukhin, L.Ye. Electrical-Pulse Machining of Forging-Die Grooves 115

Pratimok, A.G. Intensity of Metal Removal and Surface Quality in Electrolytic Machining of Carbides 134

Rimushin, G.A. Selection of Process Regimes in Electrolytic Contour Machining 145

Outkin, B.G. Electric-Resistance Machining of Metals 151

Yanogorodskiy, I.Z. New Uses of Heating in Electrolytes 167

Mikhaylov, V.A. Cleaning and Degreasing of Parts and Intensification of Electroplating With the Aid of Ultrasonics 174

Goryachev, N.S. Technique of Ultrasonic Machining of Carbide Dies 183

Chisov, V.V. Production of Magnetostrictive Transducers for Ultrasonic Machines for Machining Carbides 195

Mezhuyev, B.M. Ultrasonic Machining of Parts Made of Ceramic Materials 203

Rodius, D.B. Ultrasonic Units Developed by OKB ETO 211

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(16)

MIKHAYLOV, Viktor Alekseyevich; SHATSILLO, O.I., inzh., red.; FREGER, D.P.,
red. 1zd-va; BELOGUROVA, I.A., tekhn. red.

[Using ultrasonic techniques for cleaning, degreasing, and pickling parts] Primenenie ul'trazvuka, dlia ochistki, obezshirivaniia i travleniia detalei. Leningrad, 1961. 19 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriya: Elektricheskie metody obrabotki metalla, no.2) (MIRA 14:7)
(Ultrasonic waves—Industrial applications)

FEL'DMAN, Yuliy Azar'yevich, kand. tekhn. nauk; SHATSOVA, Sulamif' Abramovna, kand. khim. nauk; MIKHAYLOV, Viktor Alekseyevich; SHATSILLO, O.I., inzh., red.; ~~SHILLING, V.A., red. izd-va;~~ BELOGUROVA, I.A., tekhn. red.

[Accelerating processes of the electrodeposition of metals in acoustical baths] Intensifikatsiia protsessov elektroosazhdeniia metallov v akusticheskikh vannakh. Leningrad, 1961. 19 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen periodovym opytom. Seriia: Elektricheskie metody obrabotki metallov, no.8) (MIRA 14:12)

(Electroplating)

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11800 also 1063, 1160, 1155

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A004/A104

AUTHOR: Mikhaylov, V. A.

TITLE: Electrodeposition with the aid of ultrasonics

PERIODICAL: Mashinostroitel', no. 5, 1961, 47

TEXT: The author gives a description of two ultrasonic installations for the intensification of brass-plating, nickel-plating and copper-plating processes. The *OPY* -1 (OPU-1) assembly consists of blocks of ultrasonic baths for the application of the sublayer, washing and nickel-plating of parts, the control panel, *Y3P* -10 (UZG-10) electric oscillation generator, *BKT*-101 (VKG-101) rectifier producing a current of up to 300 amp at 12 v. The operation range of ultrasonic frequencies of the converters amounts to 15 - 16 kc. Bottom-type converters with 195 x 195 mm diaphragms are used in the baths, which are easily to replace. The nickel-plating bath has a casing of 10 mm vinylplastic, the converters and diaphragms are made of *M-1* (*N-1*) grade nickel. The cyanogen brass-plating bath is made of stainless steel. The converters are of Permendur while the emitting diaphragms are of carbon steel. Both baths can be utilized for processes of accelerated copper, silver and zinc plating under the effect of ultrasonic oscillations.

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Electrodeposition with the aid of ultrasonics

The control panel is equipped with two time relays making it possible to switch off the current after a preselected time period. The oscillation generator is fitted with a frequency meter and a 20 amp T⁴-1 thermoammeter. The parts are suspended on the cathode bars with the aid of special multi-position fixtures. The OP-1 assembly has undergone service tests during which a brass sublayer of 3 μ was applied in the first bath, while a 4-7 μ nickel layer was deposited in the second bath. Brass plating took 6 - 7 minutes, nickel plating 7 - 8 minutes. Without ultrasonics these processes take 80 - 90 minutes in ordinary baths. The second ultrasonic installation intended for the intensification of copper-plating processes has been fabricated for baths of cyanogen copper plating of 700 liters capacity. Two emitters with a resonance frequency of 20 kc are installed in the vat. The emitter consists of the casing, magnetostriction converter and diaphragms. The converter is fed from a 2.5 kva ultrasonic generator. The electrolyte temperature of 50 - 70°C is maintained by steam heaters. During the tests according to the ordinary method a copper layer of 2 μ was applied, then a brass layer of 2-3 μ and another copper layer of 8 μ . The three-layer coating was applied in 150 - 180 minutes to four assemblies of seven parts each. When the process was intensified by ultrasonics 10 assemblies of the same number of parts were suspended on the cathode bar and a copper layer of 15 μ ($\pm$ 3 μ) was applied within 30 - 35 minutes.

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Electrodeposition with the aid of ultrasonics

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The plating obtained was semi-lustrous of fine-crystalline structure. There are 3 figures.

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GALKOVSKAYA, Irina Yevgen'yevna; MIKHAYLOV, V.A., red.; TELYASHOV, R.Kh., red.izd-va; GVIRTS, V.L., tekhn. red.

[Ultrasonic cleaning method for watch parts used in the Petrodvorets Watch Factory] Ul'trazvukovaya promyvka detalei na Petrodvortsovom chasovom zavode. Leningrad, 1963. 13 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriya: Elektrotekhnologicheskie protsessy i ustroistva, no.5) (MIRA 17:2)

MIKHAYLOV, V.A., inzh.

Investigating certain types of hydraulic waste piling. Nauch.dokl.
vys.shkoly; gor.delo. no.4:31-36 ' 58. (MIRA 12:1)

1. Predstavleno kafedroy otkrytykh rabot Moskovskogo gornogo insti-
tuta imeni I.V. Stalina.

(Hydraulic mining--Models)

MIKHAYLOV, V. A., Candidate Tech Sci (diss) -- "Investigation of hydraulic rock piling in the rail transportation of rock". Moscow, 1959. 24 pp (Min Higher Educ USSR, Moscow Mining Inst im I. V. Stalin, Chair of Open-Pit Mining Work), 150 copies (KL, No 26, 1959, 126)

MIKHAYLOV, V.A.; NUROK, G.A., doktor tekhn.nauk, red.

[Hydraulic forming of dump piles in combination with railroad
haulage] Gidromekhanizatsiia otval'nykh rabot pri kolesnom
transporte porody. Pod red. G.A.Nurok. Moskva, Mosk.gornyi
in-t im. I.V.Stalina, 1959. 47 p. (MIRA 13:1)
(Hydraulic mining) (Mine haulage)

MIKHAYLOV, V.A. , gornyy inzh.

Investigating the hydraulic piling of waste rock by means of experimental equipment. Manch. trudy MGU no.26:173-188 '59.

(MIRA 13:11)

(Hydraulic mining) (Engineering models)